

USSR/Cultivated Plants. Ornamental.

M-10

Abs Jour: Ref Zhur-Biologiya, No 5, 1958, 20593.

Author : ^{12.} M. Lukaytene

Inst : Not given.

Title : A Tree And Shrub Assortment for Planting about Settled
Areas in the Lithuanian SSR.
(Assortment derev'yev i kustarnikov dlya ozeleneniya nase-
lennykh punktov Litovskoy SSR).

Orig Pub: V sb.: Materialy I-go resp. soveshchaniya po zelenomu str-vu.
Vil'nyus, Gaz.-zhurn. izd-vo, 1957, 6-17.

Abstract: No abstract.

Card : 1/1

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their H-4
Application. Corrosion. Corrosion Control

Abs Jour : Ref Zhur - Khim., No 24, 1958, No 81945

Author : Lukeca P.

Inst : -

Title : Corrosion of Automobile Motor Parts in Connection with the
Employment of Chemical De-icing Methods

Orig Pub : Solnice, 1956, 5, No 2, 37-41

Abstract : No abstract

Card : 1/1

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application, Part 1. - H
Corrosion, Protection Therefrom.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61339.

Author : ~~Pavel Lukaca~~
Inst : Not given.
Title : Protection of Truck Parts From Corrosion With Organic Coatings.

Orig Pub: Siln. doprava, 1957, 5, No 6, 26 - 31.

Abstract: Recommendations are made concerning the cleaning of surfaces from rust and scale mechanically (sand blasting) and with chemical means (30 to 35% of H_3PO_4 and 1 to 2% of butyl alcohol). The ground coat must be made with the greatest care and it must adhere well to the

Card 1/2

6

CZECHOSLOVAKIA / Chemical Technology, Chemical Prod- H
ucts and Their Application, Part 1. -
Corrosion, Protection Therefrom.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61339.

Abstract: metal surface, as well as to the coating. The
defects most frequently occurring in coating are
enumerated and their causes are explained. A
table containing the coating denominations and
the technique of treating surfaces of "Skoda"
truck parts is presented.

Card 2/2

LUKENAS, Saulius; BUTKUS, A., red.

[Agricultural machinery] Žemės ūkio mašinos. 2. leidimas.
Vilnius, ...s. 1964. 379 p. (MIRA 18:1)
[In Lithuanian]

L. Lukenberg, 1955
ALEKSEYEV, K.V., inzhner; LUKENBERG, Yu.S., inzhener.

Mechanization of concrete work in the construction of the Gor'kiy
State Electric Power Plant. Mekh.trud. rab. 9 no.2:5-10 P '55.
(Gorkiy—Hydroelectric power station) (MIRA 8:4)
(Concrete construction)

LUKENBERG, Yu. S.

AID P - 1792

Subject : USSR/Hydraulic Engineering Construction

Card 1/2 Pub. 35 - 4/17

Author : Lipovetskiy, M. A. and Lukenberg, Yu. S.

Title : Utilization of concrete pumps at the Gor'kiy Hydro-Power Plant Construction

Periodical : Gidr. stroi., v.24, no.1, 13-18, 1955

Abstract : Concrete pumps were used for the concreting of the pier slabs and navigation lock and for building the dam toe. Some data on the concrete mix are included. A detailed description of the type number and of pumps, their capacity and location is given. A movable concrete pump was built following a new design, and several other improvements were added on the spot. However, the performance of these pumps is considered unsatisfactory due to frequent breakdowns resulting from faulty design and improper operation.

Gidr. stroi., v.24, no.1, 13-18, 1955

AID P - 1792

Card 2/2 Pub. 35 - 4/17

Some suggestions on the further utilization of concrete pumps are made. One photo, one table and 4 diagrams are given.

Institution: None

Submitted : No date

LUKEMBERG, Yu.S., inzhener.

Experience with using concrete pumps in building the Gorky water
power development. Mekh.stroi.13 n.9:9-13 S '56. (MLBA 9:11)
(Gorkiy Hydroelectric Power Station) (Concrete
construction) (Pumping machinery)

LUKENBERG, Yu.S., inzh.

Mechanization of the trimming of trenches and loosening of frozen
ground in construction of the Votkinsk Hydroelectric Power
Station. Mekh.stroi. 19 no.11:19 N '62. (MIRA 15:11)
(Votkinsk Hydroelectric Power Station--Earthmoving machinery)

LUKENBERG, Yu.S., inzh.

Manufacture and assembly of precast reinforced concrete elements
in construction of the Votkinsk Hydroelectric Power Station.
Gidr.stroi. 33 no.4:11-14 Ap '63. (MIRA 16:4)
(Votkinsk Hydroelectric Power Station---Precast concrete construction)

LUKERCHIK, I., mayor

Sometimes the successful launching of rockets depends on several seconds. Komm.Vooruzh.Sil 2 no.5:58-60 Mr '62. (MIRA 15:2)
(Rockets (Ordnance))

LUKERCHIK, I.A., kapitan

Let us have excellent radio communications systems. Vest.
protivovozd. obor. no.5:72 My '61. (MIRA 14:7)
(Radio, Military)

LUKER'IN, Andrey Andrianovich; VISHNEVYY, V.V., red.; BERGER,
K.B., red.

[Geodetic tables of coordinate increments, elevations,
circular curve elements, and square roots of numbers]
Geodezicheskie tablitsy prirashchenii koordinat, pre-
vysheni, elementov krugovykh krivyykh i kvadratnykh
kornei iz chisel. Kiev, Budivel'nyk, 1965. 130 p.
(MIRA 18:10)

RODE, N.; BARASHINA, A.; LUKERIN, V.; BUKCHIN, I.; MIROPOL'SKAYA, S.,
starshiy ekonomist; SHVEYKO, T., rabotnik; PAVETKINA, L., rabotnik

Bank statistics and methods for their mechanization. Den. 1
kred. 20 no.6:55-63 Je '62. (MIRA 15:6)

1. Glavnyy bukhgalter Latviyskoy respublikanskoy kontory
gosudarstvennogo banka (for Rode). 2. Glavnyy bukhgalter Orlovskoy
oblastnoy kontory gosudarstvennogo banka (for Barashina). 3. Glavnyy
bukhgalter Tadzhikskoy respublikanskoy kontory gosudarstvennogo
banka (for Lukerin). 4. Zamestitel' glavnogo bukhgaltera Kurskoy
oblastnoy kontory gosudarstvennogo banka (for Bukchin).
5. Khersonskaya oblastnaya kontora gosudarstvennogo banka (for
Miropol'skaya). 6. Glavnaya bukhgalteriya Stavropol'skoy
krayevoy kontory gosudarstvennogo banka (for Shveyko, Pavetkina).
(Banks and banking--Statistics)
(Machine accounting)

EXCERPTA MEDICA Sec 11 Vol 9/6 O.R.L. June 56

1150. LUKES A. and DRASTÍK J. Z Úst. národního zdraví ONV, Praha 4, nemoc.
v Motole, Odd. pro léčení chor. ušních, krčních a nosních, Praha. *Zkušenos-
tis použitím placenty v orl jako homoplastického materiálu. Experiences
with the use of placenta in ENT as homoplastic material
ČSL OTOLARYNG. 1955, 4/2 (73-78)

In continuation of the work of Russian authors, unprepared fresh placental tissue
was used as homogeneous material to close 2 pharyngeal fistulas after laryngectomy,
one tracheal fistula after tracheotomy, a mucosal defect after removal of leuco-
plakia oris, for the narrowing of the nasal cavities in 3 cases of ozaena with sub-
mucous grafting into the nasal septum and the inferior nasal muscles, and finally
in a case with a central perforation of the tympanic membrane. Complete success
was obtained in all the cases. Unprepared placental tissue is the best homoplastic
material in otorhinolaryngology, on account of its marked healing tendency.

Gušić - Zagreb

LUKES, A.; RAUCHENBERG, M.

Leiomyosarcoma of the nose & paranasal sinuses. Cesk. otolar. 8 no.1:
1-7 Feb 59.

1. Statni oblastni nemocnice v Praze 4-Motole, odd. pro lecení chorob
usnich a nosnich, prednosta MUDr. Antonin Lukes: prosekura, prednosta
MUDr. Max. Rauchenberg. A. L., Bubenecskay, Praha 6.

(LEIOMYOSARCOMA, case reports

maxillary sinus & nasal cavity (Cz))

(MAXILLARY SINUS, neoplasms

leiomyosarcoma, case report (Cz))

(NASAL CAVITY, neoplasms

same)

LUKES, FRANTISEK

4E20

4E30
4E32
1-RS

21 22
/ Photoelectric properties of gallium antimonide, František Lukes (Masaryk Univ., Brno). Czechoslov. J. Phys., 6, 359-63 (1956) (in Russian).—Photoconductive and photo-voltic effects of *p*-type GaSb in the temp. range 120-340°K. were studied. The spectral sensitivity and temp. dependence of the 2 phenomena are identical. The energy band width E_g is given in the above temp. interval by $E_g = (0.773 - 0.76 \times 10^{-4} T^2)$. This result is in qual. agreement with Antončík's theory (C.A. 50, 9134a). The band gap increases with increasing impurity concn. 8 references. A. Krenhella

1/1

2/

5/1

LUKES, F.

Graphic determination of the thickness of thin layers by means of the interferometric method. p. 542. (CESKOSLOVENSKY CASOPIS PRO FYSIKU, Vol. 6, No. 5, Sept 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

LUKES, F.

Determination of the optical constants of semiconductors.

P. 216 (Československa Morfologie. Vol. 5, no. 4, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 2,
February 1958

Lukes Frantisek

CZECHOSLOVAKIA/Electricity - Semiconductors

G-3

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11035

Author : Lukes Frantisek

Inst : Not Given

Title : On the Determination of Optical Constants of Semiconductors

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 2, 216-217

Abstract : See Referat Zhur Fizika, 1958, No 23806

Card : 1/1

LUKES F.

CZECHOSLOVAKIA/Electricity - Semiconductors

G-3

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 3806

Author : ~~Lukes~~ Frantisek
Inst : Masaryk University, Brno, Czechoslovakia
Title : On the Determination of the Optical Constants of Semiconductors

Orig Pub : Chekhosl. fiz. zh., 1957, 7, No 8, 371-372

Abstract : Formulas are given for the dependence of the coefficient of absorption and index of refraction on the intensity of the reflected (i_r), refracted (i_a) and transmitted (i_d) rays for the case of simple addition and for the case of interference. Conditions are indicated under which the expressions for the average values of i_r and i_d have a simple form. These conditions are valid for most semiconductors outside the absorption peak.

Card : 1/1

AUTHOR: Lukeš, František

CZECH/37-58-6-11/30

TITLE: A New Method for the Measurement of Reflectivity
(Nová metoda měření odrazivosti)

PERIODICAL: Československý časopis Pro Fysiku, 1958, Nr 6,
pp 695 - 699 (Czech)

ABSTRACT: The existing methods for measuring reflectivity are of two types: a) absolute measurements; b) relative measurements. Both have certain disadvantages. Recently, Tagirov (Ref 5) described a method for measuring the reflectivity, which is free of most disadvantages, but is suitable only for large spherical mirrors. The method described in the present work is, in principle, a relative method, but it is substantially different from other such methods. The method is schematically described in Figure 1c. The light from a source (in this case the exit slits of a monochromator) falls on the concave mirror Z_0 and forms a parallel beam I_0 . I_0 is reflected from mirror Z_1 and reaches the detector D with intensity I_1 . Mirrors Z and Z_2 can be moved together on a slide into precisely defined positions. By suitably

Card1/4

CZECH/37-58-6-11/30

A New

Method for the Measurement of Reflectivity

moving them, two sequences of reflections, alternative to the one described above, can be achieved: 1) I_0 is reflected from Z , Z_3 and Z_2 , reaching D with intensity I_2 ; 2) I_0 is reflected on Z_2 , Z_3 and Z_2 , reaching D with intensity I_3 . Z , Z_1 , Z_2 , Z_3 are all parallel.

The optical path is the same in all cases. Z is the measured sample; the others are vacuum-deposited aluminium mirrors. R is the reflectivity of the aluminium mirrors, γ that of the sample. We obtain:

$$\gamma = I_2 \cdot \sqrt{\frac{1}{I_1 \cdot I_3}} \quad (5)$$

If we interchange Z and Z_1 , as it is sometimes advantageous for larger samples, then:

$$\gamma = \sqrt{\frac{I_2'}{I_1'}} \quad (8)$$

Card2/4

A New Method for the Measurement of Reflectivity

CZECH/37-58-6-11/30

The actual instrument was sufficiently small to fit in the place of the sample chamber on a Zeiss monochromator, i.e. the distance of Z_1 from the concave mirror was about

40 mm and the angle between the rays was 18° . Some slits for the exclusion of stray-light were included.

The variations in the reflectivity of the aluminised mirrors were sufficiently small to allow an overall accuracy of 0.5 - 1%.

As an example of the use of the instrument, the reflectivity of several samples of germanium was measured. Figure 2 shows the results for two polished single crystals. The not-so-well polished sample showed a maximum in R at $\lambda = 366 \text{ m}\mu$, which was almost totally absent in the well-polished sample. Both samples showed a maximum in R at $\lambda = 278 \text{ m}\mu$, which has not been described previously (Refs 4, 7).

The measured reflectivity was in good agreement with that calculated from the coefficient of absorption and the refractive index for evaporated layers but the experimental reflectivity was rather lower than the theoretical for

Card3/4

CZECH/37-58-6-11/30

A New Method for the Measurement of Reflectivity

polished samples (Table 1). This test offers a relatively simple means for the control of the quality of a polished surface.

The main advantage of the described method lies in the fact that the reflectivity of the reference mirrors need not be known. There are 2 figures, 1 table and 7 references, 2 of which are English, 2 Czech, 2 Soviet and 1 German.

ASSOCIATION: Ústav experimentální fyziky přírodovědecké fakulty MU v Brně (Institute of Experimental Physics, Faculty of Science, Masaryk University, Brno)

SUBMITTED: April 1, 1958

Card 4/4

LUKEŠ, FRANTIŠEK

Distr: 4E20

Temperature dependence of the refractive index of germanium. František Lukeš (Univ. Masaryk, Brno). Czechoslov. J. Phys. 8, 223-4 (1958) (in English). The n of Ge was measured by the method of min. deviation in the temp. range 110-440°K. The index increases linearly with temp. in the range measured. Agreement with previous work is within about 10%. Harry C. Allen, Jr.

G

CZECHOSLOVAKIA/Electricity - Semiconductors.

Abs Jour : Ref Zhur Fizika, No 8, 1959, 18237

Author : Lukes, Frantisek

Inst : Masaryk University, Brno, Czechoslovakia

Title : The Temperature Dependence of the Refractive Index of Germanium

Orig Pub : Cerkosl. casop. fys., 1958, 8, No 2, 262-263

Abstract : The dependence of the coefficient of refraction n on the temperature T was measured in single crystals of very pure Germanium in the wave length region from 1.8 to 2.5μ at a temperature interval 116 -- 440° K, using the method described by Briggs (Briggs, H.B. Physical Review, 1950, 77, 287). The accuracy of the measurement of n amounted to approximately 0.001. The temperature was measured with a Cu-constantan thermocouple with an

Card 1/2

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CZECHOSLOVAKIA/Electricity - Semiconductors.

G

Abs Jour : Ref Zhur Fizika, No 8, 1959, 18239

Author : Lukes, Frantisek

Inst : Masaryk University, Brno, Czechoslovakia

Title : On the Theory of the Temperature Dependence of the
Refractive Index of Insulators and Semiconductors.

Orig Pub : Ceskosl casop. fys., 1958, 8, No 4, 410-421

Abstract : Starting with the Lorentz theory, the author gives a
theoretical explanation of the temperature dependence of
the index of refraction of dielectrics and semiconduc-
tors over a broad frequency interval, including the
region of intrinsic absorption. For germanium, zinc
sulfide, and SiO_2 it is shown that the theoretical re-
sults, at least qualitatively, are in satisfactory
agreement with experiment, and in the case of Ge there

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CZECHOSLOVAKIA/Electricity - Semiconductors.

G

Abs Jour : Ref Zhur Fizika, No 8, 1959, 18239

is also observed a quantitative agreement between
theory and experiment.

Card 2/2

- 90 -

~~František~~ Lukes, F.

Distr: 4E3c/4E3d

Theory of the temperature dependence of the refractive index of insulators and semiconductors. František Lukes (Masaryk Univ., Brno). *Czechoslov. J. Phys.* 6, 423-34 (1958) (in English).—With the Lorentz theory of absorption and dispersion of insulators, a formulation of the temp. dependence of the n of insulators and semiconductors is derived. This theory holds in a wide spectral range, including the intrinsic absorption region. The theoretical results agree to a satisfactory degree with (exptl. data on ZnS and SiO₂ in a qual. way, and on Ge even quantitatively. 21 references.

A-Kr

FRANTIŠEK LUKES

F.

Distr: 4E3c/4E3d/4E2c

21

27

The time dependence of optical constants of germanium.
 František Lukes (Masaryk Univ., Brno). Czechoslov. J.
 Phys. 8, 491-2 (1958) (in English).—The optical consts. n
 and k (where the complex refractive index $n_c = n(1 - ik)$)
 were measured for angles of incidence of 40° and 50° by
 employing a polarization spectrometer and NaD radiation.
 The method is useful for detg. the thickness of very thin
 nonabsorbing films on Ge or other semiconductors. An
 optically perfect surface is desirable; this condition is more
 readily satisfied with deposited Ge films than with polished
 single crystals. The Drude formula is employed to calc.
 the film thickness d and n . The time dependence of the
 film thickness is $d \propto t^{1/2}$; this dependence is also found in
 other cases, e.g., $\text{Ba}(\text{OH})_2$ films on BaO (Jahoda, C.A. 52,
 2559g).
 N. Krembštiler

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CZECHOSLOVAKIA/Electricity - Semiconductors.

G

Abs Jour : Ref Zhur Fizika, No 8, 1959, 18241

Author : Lukes, Frantisek

Inst : Masaryk University, Brno, Czechoslovakia

Title : The Dependence of Optical Constants of Germanium on Time

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 4, 504-505

Abstract : A polarimetric method was used (Ref Zhur Fizika, 1955, No 7, 15164; 1956, No 4, 11610) to determine the optical constants of polished single crystals of germanium and of germanium layers deposited in high vacuum on glass backings, all as a function of time for one hundred days. The measurements were carried out at the wave length of the line N_{ap} at an angle of incidence of light of 40 and 50°. The dependence of the optical constants on the time was found in general to be similar for the deposited

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CZECHOSLOVAKIA/Electricity - Semiconductors.

G

Abs Jour : Ref Zhur Fizika, No 8, 1959, 18241

germanium layers and for the polished single crystals. An analysis of the results obtained shows that as time goes on there are formed on the surfaces of the investigated specimens thin films of oxides (GeO_2 or GeO) which are transparent at the given wave length. The thickness d and the index of refraction n of these films were calculated ($n = 2.2$ and $d = 20 \text{ \AA}$ after 100 days). It is shown that $d \sim \sqrt{t}$ (t is the time). The described method is sufficiently sensitive and accurate for the determination of the thickness of thin films, but is less accurate for the determination of n .
-- G. Volchkova

Card 2/2

LUKES, F.

SCIENCE

Periodicals: CESKOSLOVENSKY CASOPIS PR FYSIKU. Vol. 3, No. 6, 1958

LUKES, F. A new method of refraction measurements. p. 695.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

CZECH/37-59-3-25/29

AUTHORS: Vaško, A. and Lukeš, František

TITLE: Remark by A. Vaško on a Paper by F. Lukeš and Reply by F. Lukeš

PERIODICAL: Československý časopis pro fysiku, 1959, Nr 3, pp 330-331

ABSTRACT: František Lukeš has described in this journal (Ref 1) a new method of measuring the reflection which gives the reflexivity of a sample without requiring the knowledge of the reflexivity of the standard sample. This is, therefore, an absolute method of measurement. It is pointed out that, apart from the Lukeš method, there exist other methods which have not been mentioned in the paper of Lukeš.

Reply by František Lukeš to A. Vaško

The author points out that his paper was not intended to be a survey and, therefore, apart from the work of R.V. Tagirov, Ref 5, it did not discuss the various known methods of measurement. ✓

Card 1/2

CZECH/37-59-3-25/29

Remark by A. Vaško on a Paper by F. Lukeš and Reply by F. Lukeš

There are 9 references, of which 3 are Czech, 1 Soviet,
3 German and 2 English.

ASSOCIATIONS: Laboratoř optiky ČSAV, Praha (Optical Laboratory of
the Czechoslovak Ac.Sc., Prague) (A. Vasko)
Katedra fyziky přírodovědecké fakulty university,
Brno (Chair of Physics, Brno University)

SUBMITTED: Article by A. Vaško - January 5, 1959
Reply by F. Lukeš - January 20, 1959

Card 2/2

✓

CZECHOSLOVAKIA/Optics - Physical Optics.

K

Abs Jour : Ref Zhur Fizika, No 2, 1960, 4455

Author : Lukes, Frantisk

Inst : The University, Brno, Czechoslovakia

Title : A New Method of Measuring the Coefficient of Reflection

Orig Pub : Chekhosl. fiz. zh., 1959, 9, No 1, 118-123

Abstract : The author discusses a method of determining the absolute values of the coefficient of mirror reflection without using a standard reflector. A reflection spectrum is given for two polished specimens of crystalline germanium in the ultraviolet and visible regions of the spectrum. It is shown that the surface of sputtered layers of germanium is much better than that of carefully polished sections.

Bibliography, seven titles. -- L.D. Kislovskiy

Card 1/1

LUKES, F

Distr: 4E2c(m)

3
MJC(JD)
1

21 ✓ The temperature dependence of the refractive index of silicon. F. Lukes (Masaryk Univ., Brno). Czechoslov. J. Phys. 10, 511-520 (1966) (in German).—The temp. dependence of the n of Si was detd. in the wave-length range 1.1-5.5 μ for temps. 100° to 750°K. The dependence $n = f(T)$ is nonlinear and n is proportional to T^2 for low temps. ($T \approx 170^\circ\text{K.}$). A quantum-mech. relation does not exist for n of homopolar crystals; therefore, the classical Lorentz treatment was used in the theoretical calcn. The exptl. and computed values for dn/dT agree satisfactorily and support the theory advanced by Antončík (CA 51, 3221). 13 references. A. Kremheller —

LUKES, F.

Distr: 4E1d(g)/4E2c(m)/4E2d(b)/4E3c 2 cys

✓ Optical constants of thin germanium films. F. Lukes
(Univ. Brno). *Czechoslov. J. Phys.* 10, No. 1, 55-65 (1960)
(in English); cf. C.A.B. 53, 6779k. — L. gives the values of the
optical consts. of thin films of Ge obtained by evap. Ge
in vacuo onto glass slides. Thicknesses of 0.35-0.78 μ are
used for an index of absorption k , and 0.35-2.5 μ for n .
The results are compared with the values obtained by other
authors and with the values of n and k for single crystals.
The values for thin films and single crystals slightly differ
quant. but agree well qual. The influence of spontaneously
formed surface films and errors of measurement permit one to
explain the deviations observed (C.A. 53, 15781a).

4
JAS(MAY)
MJC(JB)
JIP(c)
5

LUKES, Frantisek

Sixtieth birthday of Professor Antonin Vasicek. Cs cas fys
14 no. 1:71-73 '64.

LUKES, J.

A new method for astronomic orientation. p. 84.
(Geodetický A Kartografický Obzor, Vol. 3, no. 5, May 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

LUKES, J.

Building of dwellings by using wall-high panels. p. 236

POZEMNI STAVBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia, Vol. (7),
no. 5, (May) 1959

Monthly List of East European Accessions (EEAI), LV, Vol. 8, no. 7, July 1959

Uncl.

LUKES, J.

Tabic arthropathy of both hip joints with a rapidly progressing course. Acta chir. orthop. traum. cech. 30 no.2:123-126 Ap '63.

1. Ortopedicke oddeleni OUNZ v Teplicich, vedouci MUDr. J. Lukes.

(HIP) (OSTEOARTHRITIS) (TABES DORSALIS)

LUKES, J.

Extension of the leg in shortened lower extremities. (Preliminary report). Acta chir. orthop. traum. cech. 30 no.2:100-106 Ap '63.

1. Ortopedické oddělení OUNZ v Teplicích, vedoucí MUDr. J. Lukes.

(LEG) (POLIOMYELITIS) (ARTHRODESIS)

LUKES, J.

Resuscitation by intraparterial injection of drugs as a possible cause of pathology in newborn infants. Cesk. pediat. 19 no.7:631-633 J1*64

1. Detska klinika lekarske fakulty KU [Karlov university] v Plzni; prednosta : doc. dr. J.Lukes.

LUKES, J., dr. (Iraha)

Preparing faces in quarries by bulk extraction methods within
the operation. Stavivo 42 no. 6:214-216 '64.

LUKES, Jan

Dolní měřičství a mapování. Učebnice pro 3. a 4. ročník prům. škol hornických. (Mine Surveying and Mapping; a Textbook for the 3d and 4th Grade of the Industrial Mining Schools. 1st ed. illus., maps, bibl., index) Prague, SNTL, 1957. 343 p.

Bibliografický katalog, CSR, České knihy, No. 33. 24 Sept 57. p. 723.

1ST AND 2ND ORDERS																										100 AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIANTS INDEX																									
<i>ca</i> LUKES, J.																										21																									
A few experiments on the efficiency of phenol extraction from aqueous solution. B. G. Simek and J. Lukes. <i>Zprávy Ústavu Vádrového Vykukum UMI</i> 1948, 314 (in English). This work was started to det. economical ways for extrn. of phenol from (A) ammoniacal liquor from coking plants and (B) from waste waters. In A phenol is washed out with org. solvents such as benzene or mixed with trialkyl or triaryl phosphate and removed according to Fr. 687,285. In B phenol is adsorbed on activated charcoal. The production cost of phenol detn. which method is applied. In expts. with cheaper material, such as semicoke from sub-bituminous coal, bituminous coal, lignite, and charcoal, instead of activated charcoal efficiency was not good; the best results were obtained with wood charcoal (10%). The efficiency was increased to approx. 50% with charcoal when it was satd. with benzene. It was hoped to save benzene or to increase the efficiency of less expensive adsorbents. The expts. proved that neither method is good. A Pulfrich refractometer was used in phenol detn. J. L.																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
REGIONAL INDEX																																																			

~~LUKES, J.~~ LUKES, J.

CZECH

1275. PURIFICATION OF PHENOLIC WATERS FROM GAS PROCESSES AND
FLOTATION PLANTS. LUKES, J. (Voda (Water, Czechoslovakia), 1951, vol.
33, (11), 303-305; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1955,
(2), 2612). A method is proposed in which phenol is polymerized and
oxidized into humic substances by atmospheric oxygen in an alkaline medium.
The polymerization products are removed by settling and can be burned or
used as fertilizer. The method is at the laboratory stage.

LUKES, J. (Teplice lazne v Cechach, Duchcovska 53.)

Experiences with arthroplasty of the hip joint according to the method of the Judet brothers. Acta chir. orthop. traum. cech. 25 no.2:127-133 Apr 58.

1. Ortopedické oddelení OUN v Teplicích, přednosta Dr. J. Lukes.
(HIP, surg.
arthroplasty, Judet method (Gz))

LUKES, Jaroslav.

Stereophonic broadcasting systems. Sdel tech 10 no.2:46-50 F '62.

LUKES, Jaroslav, inz.

"Book of transistor circuit technology" by H. Richter. Reviewed
by Jaroslav Lukes. Slaboproudy obzor 24 no.1:Suppl.: Literatura
24 no.1:17 '63.

LUKES, Jaroslav, inz.

Protection of inventions and discoveries. Slaboproudy obzor 24
no.2:Suppl.:Priloha pro malde inzenyry 24 no.2:P9-P12 F '63.

LUKES, J.

Comparative study on immunology and epidemiology of leptospirosis.
Bratisl. lek. listy 31 no. 9-10:817-836 1951. (CML 22:2)

1. Of the Institute of Microbiology of Masaryk University, Brno.

EXCERPTA MEDICA Sec. 7 Vol. 9/8 Aug 55

LUKEŠ J.

1610. LUKEŠ J. Dětsk. Klin. lékařsk. Fak., Karlovy Univ., Plzeň. * K terapii dermatitis seborrhoides (Moro). On the treatment of seborrhoeic dermatitis (Moro) PEDIAT. LISTY 1954, 9/4 (219-222)

The author describes the treatment of 4 cases of seborrhoeic dermatitis with folic acid in organisms saturated with vit. C. He states that ascorbic acid is one of the factors utilizing folic acid. Further he deals with the clinical picture and the aetiology of seborrhoeic dermatitis and remarks that the relationship of seborrhoeic

1610

CONT.

dermatitis to Leiner's desquamative erythrodermia is not always simply quantitative.
Möhwaldová - Ostrava-Zábreh (VII, 13*)

VANEK, J.; LUKES, J.; POTUZNÍK, V.; POLEDNÍKOVÁ, I.; VILÍM, V.

Myocarditis and encephalitis in newborn infants, caused by coxsackie B virus. J. Hyg. Epidem., Praha 3 no.3:283-291 1959

1. Sıkl's Department of Pathology and Children's Clinic of the Medical Faculty, Charles University, Plzen, Department of Virology of the Regional Hygiene and Epidemiology Station, Ceske Budejovice, Anti-epidemic Department of the Regional Hygiene and Epidemiology Station, Plzen.

(MYOCARDITIS, in inf. & child)

(ENCEPHALITIS, in inf. & child)

(INFANT NEWBORN, dis)

(COXSACKIE VIRUSES, infect)

LUKES, J.

Osteoid osteoma. Acta chir.orthop.traum.cech. 27 no.5:438-449
O '60.

1. Ortopedické oddelení OUNZ v Teplicích, prednosta primar MUDr.
Jaroslav Lukes.
 (OSTEOMA OSTEOID case reports)
 (TOES neopl)
 (TIBIA neopl)

VESELSKY, J.; LUKES, J.

Birth epiphyseolysis of the femoral head and its differential diagnosis in newborn infants. Acta clin. orthop. traum. cech. 29 no.2: 203-210 '62.

1. Ortopedická poliklinika, prednosta MUDr. J. Veselsky a pediatricke oddelení Zavodního ustavu narodního zdraví VZKG v Ostrave - Vítkovicích, prednosta, MUDr. J. Lukes.
(FEMUR HEAD wds & inj) (BIRTH INJURIES)

JANACKOVA, R.; LUKES, J.; BRYCHTA, M.

Nephrocalcinosis in a 9-year-old boy. Cesk. pediat. 19 no.3:
260-265 Mr'64.

1. Detske oddeleni ZUNZ-VZKG Ostrava-Vitkovice (vedouci: MUDr.
J. Lukes) a Rentgenologicke oddeleni ZUNZ-VZKG Ostrava-Vitkovice
(vedouci: MUDr. J. Maneth).

*

LUKES, J.; LUKESOVA, M.

Choline metabolism of infants under normal and pathological conditions.
Rev. czech. med. 9 no.1:1-9 '63.

1. Paediatric Clinic, Medical Faculty, Charles University, Plzen.
Director: Doc. J. Lukes, M.D.

(CHOLINE)	(VITAMIN B COMPLEX)	(AMINES)	(FOLIC ACID)
(CREATINE AND CREATININE)	(ASCORBIC ACID)	(AMINO ACIDS)	
(VITAMIN K)	(URINE)	(VITAMIN D)	(RESPIRATORY TRACT INFECTIONS)
(SEBORRHEA)	(OTITIS MEDIA)	(ERYTHRODERMA)	(PYODERMA)
(DIAGNOSIS, LABORATORY)	(HEART DEFECTS, CONGENITAL)		
(METABOLISM)	(ANEMIA, HYPOCHROMIC)		

LUKES, Jiri

Myocarditis and meningoencephalitis in newborn infants caused
by Coxsackie virus B 3. Cesk. pediat. 14 no.8:731-735 Aug 59.

1. Detska klinika lekarske fakulty Karlovy university v Plzni,
prednosta doc. dr. J. Lukes.

(COXSACKIE VIRUSES, infect.) (MENINGOENCEPHALITIS, in inf. & child)
(MYOCARDITIS, in inf. & child) (INFANT, NEWBORN, dis.)

E 31016-66 T JK

ACC NR: AP6023124

SOURCE CODE: CZ/0060/65/000/006/0264/0268

AUTHOR: Lochovsky, Jan (Colonel; Doctor of medicine); Lukes, Jiri (Lieutenant colonel; Doctor of medicine); Slacalkova, Vlasta (Doctor of medicine)

ORG: Dermatology Department, Central Military Hospital /headed by Colonel, Doctor of medicine Jan Lochovsky/, Prague (Kozni oddeleni Ustredni vojenske nemocnice); Institute for Sera and Vaccines /directed by Doctor of medicine J. Malek/, Prague (Ustav ser a ockovacich latek)

TITLE: Attempt at immunoprevention of staphylococcal pyoderma

SOURCE: Vojenske zdravotnicke listy, no. 6, 1965, 264-268

TOPIC TAGS: immunization, preventive medicine, military medicine, antitoxin, skin disease

ABSTRACT: Mass immunoprevention by the use of a staphylococcal antitoxin "Alstafar" was attempted. The best dose was 0.2 ml of the solution. In a military unit 221 soldiers were immunized, and 202 not, serving as controls. No clear cut results were obtained. This was due mainly to the fact that very few pyoderma occurred in the unit during the experiment. The authors thank Doctor J. Stepankova of the Institute for Sera and Vaccines for carrying out titrations. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 016 / SOV REF: 010
OTH REF: 008

Card 1/1 LC

UDC: 616.5-002.3-022.71.252-084-085.37
0915 13 37

LUKES, J.

Accurate measurement of the length of the long bones. Acta
chir. orthop. traum. Cech. 31 no.4:366-370 Ag '64.

1. Ortopedické oddelení Obvodního ústavu národního zdraví
v Teplicích (vedoucí MUDr. J. Lukes).

LUKES, JOSEF

KLIMA, Josef; LUKES, Josef

Pulmonary chondrohamartoma. Cesk. rentg. 11 no. 4:263-271 Dec 57.

1. Rentgenologicke oddeleni OUNZ Kladno, prednosta K. Fried
Tuberkulosni oddeleni OUNZ Kladno, prednosta J. Lukes.

(LUNG NEOPLASMS, case reports

chondrohamartoma (Cz))

(CHONDROMA, case reports

pulm. chondrohamartoma (Cz))

(HAMARTOMA, case reports

same)

[illegible]

LUKESH, L.J.

PHASE I BOOK EXPLOTTATION

SOV/3521

Klepešta, Josef, and Ladislav J. Lukesh, Engineer, Doctor of Technical Sciences

Karta luny (Map of the Moon) Prague, Tsentral'noye upravleniye geodezii i kartografii, 1959. 41 p. fold. map on 2 sheets, each 72 x 50 cm., scale 1:5 000 000. No. of copies printed not given.

Resp. Ed.: Dara Bemova; Tech. Ed.: František Paňek, Geodetic Engineer;
Translator: Alaksandra Mikhnevich.

PURPOSE: The publication is intended for astronomers and space researchers interested in problems concerning the moon.

COVERAGE: The author has constructed a map of the moon, consisting of two quarters and picturing the moon's surface as it is seen through a telescope. The pictures were based mainly on two photographs made at the Likka observatory. In sketching the monthly phases, use was made of numerous photographs received from foreign observatories, as well as negatives taken with a large telescope of the National Observatory in Prague. Both maps resemble the photographs to an extent but have the advantage of being three-dimensional over the entire quarter of the moon, which in the photographs is clearly visible only

Card 1/3

Map of the Moon

80V/3521

on a border line between light and shade areas. The author uses the new geographical terminology of the moon accepted by the International Astronomic Association. There are no references given.

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Card 3/3	TM/mas 5/16/60

KARTOUS, M.; LUKES, L.

2 Cases of pseudocysts of the pancreas treated by internal drainage.
Bratisl. lek. listy. 42 no.2:95-98 '62.

1. Z Chirurgického oddeleni OUNZ v Hodonine, prednosta prim. MUDr.
J. Drobny a z Rentgenologickeho oddeleni OUNZ v Hodonine, prednosta
prim. MUDr. M. Rokyta.
(PANCREAS dis) (CYSTS ther) (DRAINAGE)

LUKES, Ludovit, inz.

Gluing solid foam plastics on large surfaces. Drevo 18
no.5:181-182, 184 My '63.

1. Statny drevarsky vyzkumny ustav, Bratislava.

BERGER, Vladimir; LUKES, Ludovit; JURIK, Ladislav

Effect of the composition of gluing mixtures from urea glues
and the pressing time on the strength and resistance of
glued joints. Drevarsky výskum No.2:175-189 '62.

LUKES, M
(3930)

Vliv teploty na dychani zati juze Effect of heat on cutaneous respiration of the frog Casopis Lekarů Ceských, Prague 1949, 88/2 (40-44)
Graphs 4 Tables 4

The influence of temperatures between 1 degree and 40 degrees C. was investigated by Warburgh's method. The rise of metabolism due to progressive increase in temperature follows the formula of Belehradek $y = \frac{a}{t-x} b$, the temperature

coefficient b being 2.01, and the biological zero x being in this case -8 C. The inflexion of the curve is around 38 degrees C. At lowest and supraoptimal temperatures the time factor--varying with temperature - plays important role.

Kruta-Hradec Kralove

So: Excerpta Medica, Vol II, No 8, Section II, August 1949

Lukes, M.

Country: Czechoslovakia

Academic Degree:

Affiliation: Tuberculosis Research Institute (Vyskumny ustav tuberkulózy), Prague. Director: Professor Dr. RALF KRIEGLER.

Source: Prague, *Ročník v tuberkulóze a v nemocniční praxi*, No 4, for Q1, pp 271-275

Title: "Contribution to the Question of Strain on the Right Heart and on Pulmonary Circulation, Following Tuberculosis of the Lungs."

Co-authors: LUKES, M. WEDER, J. BENEŠ, R. VILICH, A.

Note: The affiliations are given for the five (including KRIEGLER) co-authors, in the following order:

1. Institute for Postgraduate Medical Training (Ustav pro doktorskou lekarskou), Director: Professor Jan KRIEGLER, Doctor of medical sciences.
2. Chair of Histology (Katedra histologie). Head: docent Dr. RALF KRIEGLER.
3. Tuberculosis Research Institute (see above).
4. Institute for Circulatory Diseases (Ustav pro choroby oběhu krve), Prague-180. Director: Professor Dr. K. VILICH.

Note: For KRIEGLER's full address (Tuberculosis Research Institute), there is no clue to the affiliation or affiliations of the individual co-authors.

(70 10114)

Lukes, M.

9

Country: Czechoslovakia

Academic Degree:

Affiliation: Tuberculosis Research Institute (Výzkumný ústav tuberkulózy), Prague. Director: Docent Dr. R. [unclear] KUIVKA.

Source: Prague, Ročník v Tuberkulóze a v Souběžných Plicních, No 5, May 61, pp 363-375

Title: "The Significance of Examining the Pulmonary Circulation prior to the Surgical Treatment of Tuberculosis"

Co-authors: LUKES, M. WIDEMSKÝ, J. BUDNÝ, R. VALICH, A.

Notes: Your affiliations are given for the five (including VYELUGIL) co-authors, in the following order:

1. Institute for Postgraduate Medical Training (Ústav pro doktorskou lékařskou přípravu). Director: Professor Jan KUCERA, Doctor of Science.
2. Chair of Pathology (Anatomie a Patologie). Head: Docent Dr. R. KUIVKA.
3. Tuberculosis Research Institute (see above).
4. Institute for Circulatory Diseases (Ústav pro choroby oběhu krve), Prague-Kr. Director: Professor M. [unclear].

Since for VYELUGIL's full address (Tuberculosis Research Institute), there is no allow to the affiliation or affiliations of the individual co-authors.

KASALICKY, J.; VALACH, A.; DEJDAR, R.; KUBAT, K.; WIDIMSKY, J.; VYSLOUZIL, Z.;
LUKES, M.

Cor pulmonale in tuberculosis. Rev. czech. med, 8 no.3:164-170 '62.

1. Institute for Cardiovascular Research, Prague-Krc Director: Doc.
Dr. J. Brod, D.Sc. Tuberculosis Research Institute, Prague-Bulovka
Director: Doc. Dr. R. Krivinka.
(TUBERCULOSIS, PULMONARY) (PULMONARY HEART DISEASE)

KASALICKY, J.; DEJDAR, R.; VYSLOUZIL, Z.; LUKES, M.

The effect of pendiomide (Siba) on the greater and lesser circulations of patients with chronic pulmonary disease. Cor vasa 5 no.2:120-127 '63.

1. Institute for Cardiovascular Research and the Institute for Tuberculosis Research, Prague.

(PULMONARY CIRCULATION)	(TUBERCULOSIS, PULMONARY)
(SILICOSIS)	(BRONCHITIS) (AZAMETHONIUM COMPOUNDS)

LUKES, RUDOLF

DECEASED
OCTOBER 1960

1961/2

see ILC

CHEMISTRY

HAVLICEK, J.; LUKES, R.

Methods and results of immunological surveys for antistreptolysin O in the population. Cesk. epidem. 12 no.3:169-179
My '63.

1. Ustav epidemiologie a mikrobiologie v Praze.
(ANTISTREPTOLYSIN) (STREPTOCOCCAL INFECTIONS)

LUKES, V.

The increase of cast-iron production in the Klement Gottwald Ironworks in Vitkovice.

P. 331. (Hutník, vol. 7, no. 10, Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

LUKES, V.

Small-scale industries. p.46.

CZECHOSLOVAK HEAVY INDUSTRY. Prague, Czechoslovakia. No. 8, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960.

Uncl.

LUKES, V.

"Production of Compressed Air". p. 727 (STROJIRENSTVI, Vol. 9, No. 10, October, 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

LUKES, V.;KOMERS, R.

On Terpenes. Pt. 163. Coll Cz chem 29 no.7:1592-1603 J1 '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

MOTL, O.; LUKES, V.

On terpenes. Pt.173. Coll Cz Chem 30 no.3:917-919 Mr '65.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. Submitted June 11,
1964.

LUKES, V.

"Acetylene in Machine Plants." p. 223, Praha, Vol. 4, no 3, Mar. 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

Hofmann degradation of quaternary bases and salts containing unsaturated alkyl groups. VIII. Trimethylammonium bis(trimethylammonium hydroxide) (Rudolf Lukes, Jan Trojanek, and Vít Látka (Tech. Univ., Prague). Chem. Abstr. 51, 1149-52 (1957); cf. C.A. 51, 3550j. Thermal decomn. of $\text{CH}_3(\text{CH}_2\text{NMe}_2\text{OH})_2$ (I) proceeds in 2 steps. Decomn. at temps. below 100° gives NMe₃ and homoneurine (II) and can be stopped in this stage. At higher temps. are obtained compds. corresponding to the decomn. products of II. Aq. soln. of 33.8 g. $\text{CH}_3(\text{CH}_2\text{NMe}_2\text{Br})_2$ (III) was shaken 20 min. with excess freshly prepd. Ag_2O , the ppt. filtered off, the filtrate dild. with H_2O to 2000 ml. and dropped into a distn. flask (heated by direct flame) at the same rate as the H_2O carrying the volatile bases distd. off; when all has been added heating was continued while dropping in H_2O at the rate until the distillate ceased to give alk. reaction (about 1 hr.). The nonvolatile bases (0.0822 equiv.) in the residue contained II, characterized by picrate, m. $216-18^\circ$; di-Br deriv., m. $179-80^\circ$ (picrate, m. $127-8^\circ$ (from EtOH)). The volatile bases (0.0895 equiv.) contained NMe₃ (HBr salt, m. 243° ; picrate, m. $215-16^\circ$), no secondary bases. I (0.4191 equiv. in 250 ml. H_2O) was heated to 215° while passing a stream of N_2 ; the decomn. products caught in a trap contg. dli. HCl and steam-distd. The nonvolatile bases (0.3826 equiv.) present as HCl -salts contained NMe₃ and NHMe_2 characterized as $p\text{-MeC}_6\text{H}_4\text{SO}_2\text{NMe}_2$, m. $82-3^\circ$. The volatile bases were exd. with Et_2O to give in the Et_2O layer 0.36 g. $\text{EtCH}_2\text{C}(\text{Me})\text{CHO}$ (characterized by 2,4-dinitrophenylhydrazone, m. $167-8^\circ$) and EtCHO deid. as EtCO_2H . The gaseous products contained $\text{MeC}\equiv\text{CH}$ and $\text{C}_2\text{H}_2\text{C}\equiv\text{CH}$ characterized as $\text{CH}_3\text{BrCBrCH}_2\text{CH}_2\text{Br}$, m. -12° . Contrary to von Braun (C.A. 6, 982) $\text{CH}_3\text{CHCH}_2\text{NMe}_2$ and $\text{Me}_2\text{N}(\text{CH}_2)_2\text{NMe}_2$ were not among the products of decomn. III was prepd. by heating 1240 ml. EtOH soln. contg. 127.5 g. NMe₃ and 212.0 g. $\text{Br}(\text{CH}_2)_2\text{Br}$ to $40-50^\circ$ on H_2O bath about 36 hrs. and evapp. the soln. to give 202 g. crystals of III, decomp. 225° .

LUKES, V.; HEROUT, V.

Apparatus for preparative gas-liquid chromatography. Coll Cz Chem 25
no.11:2770-2776 N '60. (EEAI 10:6)

1. Institut fur organische Chemie und Biochemie, Tschechoslowakische
Akademie der Wissenschaften, Prag.
(Chromatography)

LUKES, V.

2/4

- Prague, Collection of Czechoslovak Chemical Communications, vol. 61, No. 1, April 1962 (continued).
88. A. ANDRUSAL, of the Institute of Chemical Technology at A. M. K. and A. M. K. in Prague, Czechoslovakia; pp 979-986.
89. On Purposes. Part I. Composition of the Oil from the Leaves of *Salix purpurea* L. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 987-993 (English article). G. NOVÁK and V. LUKES.
90. On Purposes. Part II. The Primary Structure of Open Vase Molecules in View of the General Principles Governing the Structure of Proteins. J. NOVÁK, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 994-1000 (English article).
91. On Purposes. Part III. Analysis of the Primary Structure of Short Cyclic Polymers. J. NOVÁK, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1001-1008 (English article).
92. Dependence of DNA Synthesis by Phase II, on the Activity of DNA. J. NOVÁK and E. ŠTĚPÁK, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1009-1013 (English article).
93. Contributions to the Chemistry of Amino Acids at Higher Temperatures. A. NOVÁK, V. ČADAVSKÁ and V. ŽEL, from the Microbiological Institute of the Czechoslovak Academy of Sciences, and the Institute of Chemistry, Charles University, Prague; pp 1014-1018.
94. The Purification of Amino Acids. A. NOVÁK, V. ČADAVSKÁ and V. ŽEL, from the Microbiological Institute of the Czechoslovak Academy of Sciences, and the Institute of Chemistry, Charles University, Prague; pp 1019-1020.
95. The Polarity of the Amino Acids and Nucleotides of Nucleic Acids. A. NOVÁK, V. ČADAVSKÁ and V. ŽEL, from the Microbiological Institute of the Czechoslovak Academy of Sciences, and the Institute of Chemistry, Charles University, Prague; pp 1021-1024.
96. The Conformation of Amino Acids and Nucleotides of Nucleic Acids. A. NOVÁK, V. ČADAVSKÁ and V. ŽEL, from the Microbiological Institute of the Czechoslovak Academy of Sciences, and the Institute of Chemistry, Charles University, Prague; pp 1025-1028.
97. The Direct Reaction of Amino Acids with Nitrogenous Compounds. A. NOVÁK, V. ČADAVSKÁ and V. ŽEL, from the Microbiological Institute of the Czechoslovak Academy of Sciences, and the Institute of Chemistry, Charles University, Prague; pp 1029-1032.

1/6

LUKES, V.

"Papers on gas chromatography 1959," edited by Hans Georg Struppe.
Reviewed by V. Lukes. Chem listy 57 no.2:180 F '63.

L 46932-65 EMP(t)/EMP(b) JD
ACCESSION NR: AP5015105

CZ/0051/64/000/009/0422/0424

10
B

AUTHOR: Lukes, Vlastimil(Engineer)

TITLE: Pig-iron production in Czechoslovakia using non-blast furnace processes from the view point of the uses of pig iron

SOURCE: Hutnik, no. 9, 1964, 422-424

TOPIC TAGS: pig iron, metallurgical process

Abstract: The following methods are described: Hoeganaas process, Wiberg process, Hyl process, Echeverria process, processes like the H-Iron, Nu-Iron, and Esso processes, various types of the Krupp-Kann process, Strategic Udy process, electric reduction furnaces, and the Stora process. All are based on the use of rich ores with not more than 2 to 4 percent of impurities. Orig. art. has 1 table.

ASSOCIATION: VZKG, Ostrava

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

JPRS

Card 1/1 me

L 38869-66

ACC NR: AP6029556

SOURCE CODE: C2/0057/65/000/011/0472/0479

AUTHOR: Lukes, Vlastimil

ORG: Klement Gottwald Vitkovice Iron Works, Ostrava (VZKG)

TITLE: Economic criteria of the use of coal dust as fuel replacement in blast furnaces

SOURCE: Hutnik, no. 11, 1965, 472-479

TOPIC TAGS: coal, blast furnace, coke, industrial management

ABSTRACT: Any amount of oil or coal introduced into the furnace reduces the amount of coke required. The maximum economies that can be obtained by introducing oil are reached when 45 - 50 kg of fuel oil is used per ton of pig iron. The savings for coal dust increase with the increasing amount of coal used. The optimum conditions are obtained when 138 kg of coal are used per ton of iron; the maximum economies are obtained when 160 kg of coal per ton of iron is used; under these conditions 23.8% of the coke normally used is saved. With a proper preheat of blast air, up to 30% of the coke could be replaced by coal; when oxygen is used the saving of coke could be even higher. There are certain technical factors that limit the reduction of the amount of coke used, and these must be considered in individual cases, where replacement of coke by coal is being considered. / Orig. art. has: 3 figures, 4 tables, and

1 formula. / JPRS: 34,5497

SUB CODE: 11,05 / SUBM DATE: none / ORIG REF:002 / SOV REF:001 / OTH REF:009

Card 1/1 *ms*

0917

2652

L 3751-66 EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5027813

CZ/0057/65/000/001/004/007

AUTHOR: Lukes, Vlastimil (Engineer); Chlebek, Lubomir (Engineer)

TITLE: Use of inert grate layer in agglomeration of iron ores

SOURCE: Hutnik, no. 1, 1965, 4-7

TOPIC TAGS: iron, metallurgic furnace, chromium alloy, metal melting

Abstract: The layer prevents damage to the grates, evens out pressure across the grate and facilitates uniform firing. The layer can consist of returned agglomerate, iron ore, or limestone. The most desirable is the first kind. Protection of the grates and their life are discussed. Use of high Cr alloys in this service is evaluated. Size of the grain, water content, and other properties of the ore are important factors in the selection of a suitable inert layer. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: VZKG, Ostrava

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 002

OTHER: 010

JPRS

Card 1/1

LUKES, Zd., inz.

Transistor qadratic voltmeter. Sdel tech 9 no.9:352-353 S '61.

Z/039/62/023/009/003/003
D407/D301

AUTHOR: Lukeš, Zdeněk

TITLE: A bridge for measuring the y and h parameters of transistors in a range of 1 to 30 Mc

PERIODICAL: Slaboproudý obzor, v. 23, no. 9, 1962, 517-523

TEXT: The article describes a modified Schering bridge for measuring the y and h parameters of rf transistors. This bridge was used to measure the input admittance of the Czechoslovak TESLA 156NU70 transistor (product of the TESLA Plant in Rožnov), which has a cutoff frequency of 15 mc, in common-base and common-emitter configuration. The transistor is represented by a four-terminal network, and the frequency-dependent y and h parameters are represented by the elements of a Giacoletto rf equivalent circuit. In conclusion the author states that instruments for measuring transistor parameters in a frequency range above 5 mc are now also available in the CSSR. The Ústav radiotechniky a elektroniky ČSAV (Radioengineering and Electronics Institute, Czechoslovak AS) developed a measuring

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A bridge for measuring ...

Z/039/62/023/009/003/003
D407/D301

instrument for cutoff frequencies up to 190 mc and a measuring instrument for admittance parameters, the VÚST A.S. Popova (A.S. Popov Communication Research Institute) in Prague developed a similar instrument for cutoff frequencies of several hundred mc. There are 19 figures. ✓

ASSOCIATION: Ústav radiotechniky a elektroniky ČSAV, Praha
(Radioengineering and Electronics Institute, Czechoslovak AS, Prague)

SUBMITTED: February 22, 1962

Card 2/2

LUKES, Zdenek

A bridge for measuring the y and h parameters of transistors within 1 to 30 Mc/s range. Slaboprouty obzor 23 no.9:517-523 S '62.

1. Ustav radiotechniky a elektroniky, Ceskoslovenska akademie ved, Praha.

Z/042/63/000/004/002/003
E140/E135

AUTHOR: Lukeš, Zdeněk, Engineer

TITLE: Design and test of high-frequency transistor oscillators

PERIODICAL: Elektrotechnický časopis, no.4, 1963, 202-217

TEXT: The importance of the transistor equivalent circuit is stressed and it is shown that the most convenient of these for sinusoidal oscillators is that based on the y and h parameters. The results permit calculating the external parameters of the oscillator circuit (external to the transistor) such that the frequency dependence on variations of the transistor parameters be minimal. There are 14 figures.

ASSOCIATION: Ústav radiotechniky a elektrotechniky ČSAV
(Institute of Radio Engineering and Electrotechnics,
Czech AS)

SUBMITTED: November 2, 1962

Card 1/1

LUKES, Zdenek, inz.

Transistor sine oscillators. Sdel tech ll no.3:94-98 Mr '63.

LUKES, Zdenek, inz.

Calculation and measurement of the high-frequency transistor oscillator. El tech cas 14 no.4:202-217 '63.

1. Ustav radiotechniky a elektrotechniky, Československa akademie ved, Praha 8 - Kobylisy, Lumumbova 1.